

# **D Series Tractors and Engines**

## **SERVICE MANUAL**

**5632**

***CASE III***

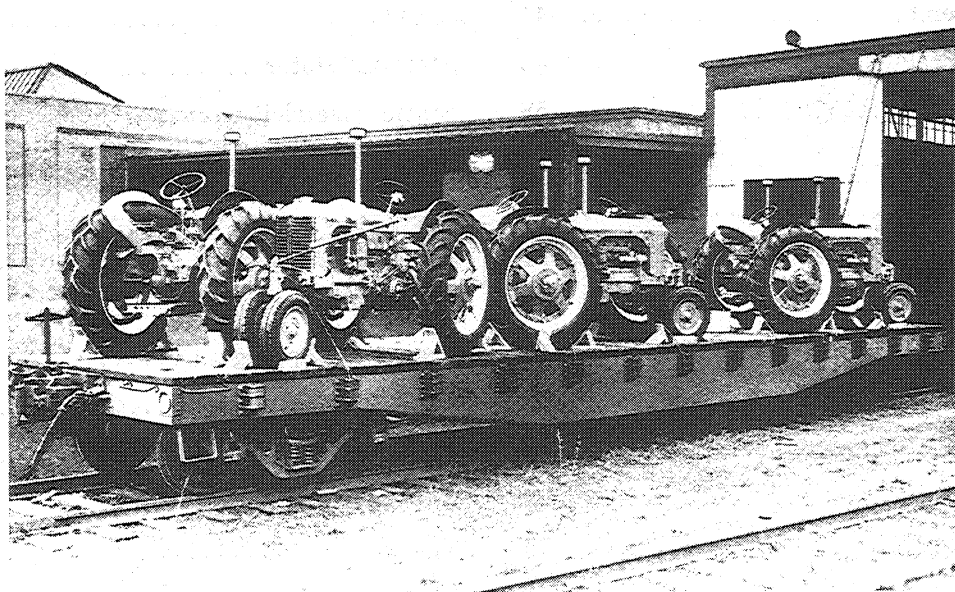
This Dealer's Service Manual has been developed to more completely familiarize Case dealers and their mechanics with all of the service details connected with the economical and efficient servicing of Model "D" Series Tractors and "DE" Engine Units.

It is, therefore, very important that this manual be carefully read and studied by all persons in the dealer's organization. If this is done, then we are sure that all tractors and engine units will be properly serviced either in the field or in the dealer's service shop.

Case tractors are built in modernly equipped factories where quality materials and the finest precision machinery is used, and where the highest grade workmanship is employed. Therefore, all tractors and engine units will perform satisfactorily if the owner is properly instructed in the care and operation.

Case users depend upon their dealers to give them advice and render service to assure long life performance that is built into every Case machine.

Parts for all Case machines are illustrated and are identified by part numbers in the regular parts catalog.



Case tractors are shipped from the factory on flat cars, as shown above, or in box cars. Report any shortages or damages immediately to transportation company. This also applies to tractors shipped via truck.

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# MODEL "D" SERIES TRACTOR

## SPECIFICATIONS

### Engine.

Cylinders .....	4
Bore .....	3 $\frac{7}{8}$ inches
Stroke .....	5 $\frac{1}{2}$ inches
Displacement .....	259.5
Cylinder Barrels .....	Wet Sleeves
Valve-in-Head	
Compression Ratio	
Low-Cost Fuel .....	4.88
Gas Fuel .....	5.58
Compression Pressure	
Low-Cost Fuel .....	96
Gas Fuel .....	115
No Load Speed .....	1367 RPM
Full Load Speed .....	1200 RPM
Firing Order .....	1-3-4-2
Valve Clearance .....	.018 inches when cold
Spark Plug .....	AC Type No. 85 or equivalent Thread 18 MM—Gap .030"
Carburetor .....	1 $\frac{1}{4}$ " SAE Flange
Magneto .....	Case Type 4-JMA
Air Cleaner .....	Case Oil Bath Type
Governor .....	Case Fly Ball Type

### Belt Pulley.

Diameter .....	12 $\frac{1}{4}$ "	Face .....	7 $\frac{1}{4}$ "
No Load Speed .....	930 RPM		
Full Load Speed .....	818 RPM		
Belt Speed .....	2620 ft. per min.		
Ratio Engine Speed to			
Belt Pulley Speed .....	1.466 to 1		

### Belt Pulley—"DE" Engine Units.

Diameter .....	Optional	No Load Speed ...	1367
Face .....	8 $\frac{3}{8}$ -10 $\frac{3}{8}$	Full Load Speed ..	1200

### Power Take-Off.

Normal Speed .....	540 RPM
Spline .....	1 $\frac{3}{8}$ " ASAE Standard
Guard .....	FEI Standard

Located on center line of tractor

### Approximate Capacities.

	U. S.	IMPERIAL
Engine Crankcase .....	1 $\frac{3}{4}$	1 $\frac{1}{2}$ gals.
Cooling System .....	6 $\frac{3}{4}$	5 $\frac{1}{2}$ gals.
Single Fuel Tank .....	19	16 gals.
Double Fuel Tank (Large) ..	17	14 gals.
(Small) ..	2	1 $\frac{2}{3}$ gals.
Transmission and Differential	10 $\frac{1}{2}$	8 $\frac{1}{2}$ gals.

# MODEL "D" SERIES TRACTOR—Continued

## Speeds.

Rear Tire Size .....	"D"		"DC"		"DO"	"D"
	12-26	13-26	11-38	12-38	13-26	42" Diameter Steel Wheels
Approx. Speeds						
1st .....	2.10	2.19	2.10	2.17	2.19	1.95
2nd .....	3.63	3.78	3.63	3.75	3.78	3.36
3rd .....	5.00	5.20	5.02	5.18	5.20	4.64
4th .....	10.11	10.51	10.10	10.40	10.51	9.36
Reverse .....	2.86	2.98	2.87	2.97	2.98	2.65

Note: Speed will vary with weight of wheel, traction, size tire and load.

Calculated at Engine Speed of 1200 RPM

## Shipping Weight.

Model "D" .....	12-26 Tires	4433 lbs.
Model "D" .....	13-26 Tires	4489 lbs.
Model "DO" (Orchard-Grove) .....	13-26 Tires	4602 lbs.
Model "DC3" (General Purpose) .....	11-38 Tires	4766 lbs.
Model "DC3" .....	12-38 Tires	4796 lbs.
Model "DC4" .....	11-38 Tires	4471 lbs.
Model "DC4" .....	12-38 Tires	4501 lbs.
Model "DC3" (General Purpose with Adjustable Front Axle).....	11-38 Tires	4622 lbs.
Model "DC3" .....	12-38 Tires	4662 lbs.
Model "DCS" (Cane Tractor) .....	11-38 Tires	6360 lbs.
Model "DE" (Engine Unit Less Belt Pulley) .....		1475 lbs.

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